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Date: November 26, 2001 Label No. EL 748964317 US

I hereby certify that, on the date indicated above, I deposited this paper with identified attachments and/or fee with the U.S. Postal Service and that it was addressed for delivery to the U.S. Patent and Trademark Office, P.O. Box 2327, Arlington, Virginia 22202 by "Express Mail Post Office to Addressee" service.

CHEMYLS. ROLLENS

Signature

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re pplication of: Woudenberg et al.

ation No.: 09/938,947

Group Art Unit: 1741

Fil 24, 2001

Examiner: Not Assigned

For:

BUBBLE-FREE AND PRESSURE-GENERATING ELECTRODES FOR ELECTROPHORETIC AND ELECTROPHORETIC

<u>INFORMATION-DISCLOSURE STATEMENT</u>
<u>PURSUANT TO 37 CFR §1.97</u>

Assistant Commissioner for Patents Washington, D.C. 20231

November 26, 2001

Sir:

The attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached Forms PTO-1449.

The above information is presented so that the Patent and Trademark Office can, in the first instance, determine any materiality thereof to the claimed invention. *See* 37 CFR 1.104(a) and 1.106(b) concerning the PTO duty to consider and use any such information. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the documents cited in the attached Forms PTO-1449 be made of record therein and appear on the first page of any patent to issue therefrom.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in

Information Disclosure Statement U.S. Patent Application No. 09/938,947

this application and applicants determine that the cited documents do not constitute "prior art" under United States law, applicants reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

It is believed that no fee is required to make this a complete and timely filing. However, if it is determined that a petition or fee is required, the Commissioner is hereby authorized to charge any fee associated with this statement to our Deposit Account No. 50-0925 and please consider this a petition.

Respectfully submitted,

Leonard D. Bowersox Reg. No. 33,226

Atty. Docket No. 5010-001 KILYK & BOWERSOX, P.L.L.C. 3603-E Chain Bridge Road

Fairfax, VA 22030 Tel: (703) 385-9688 Fax: (703) 385-9719

Enclosures: Form PTO-1449 (2 sheets), w/ forty (40) documents

## Information Disclosure Statement U.S., Patent Application No. 09/938,947



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DENBERG et al. ust 24, 2001  Document Number  9,353  9,828  9,803  1,394  8,818  5,676  5,452	Date  12/12/00  10/10/00  08/08/00  06/06/00  05/30/00  04/04/00  - 10/12/99  01/12/99  11/10/98	Group Art Unit:  U.S. PATENT DOCU  Name  West et al.  Sheldon, III et al.  Ackley et al.  Cheng et al.  Ackley et al.  Mathies et al.  Kovacs  Ramsey et al.  Nordman	Class  204  204  422  204  422  204	Sub Class 601 518 68.1 547 50 603 149	Filing Date If Appropriate
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5,676 5,452 = = 8,187 3,826	04/04/00 10/12/99 01/12/99 11/10/98	Mathies et al.  Kovacs Ramsey et al.	204	603	
5,452 = - 8,187 3,826	- 10/12/99 - 01/12/99 11/10/98	_KovacsRamsey et al.	43.6	149 _	
8,187 3,826	01/12/99	Ramsey et al.			
3,826	11/10/98		204	452	
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2,957		INOIGIIIAII	204	452	
	05/27/97	Heller et al.	422	68.1	
5,662	02/25/97	Heller et al.	422	68.1	
0,576	08/31/93	Lauer et al.	204	180.1	-
1,100	01/04/77	Haydock	204	180R	
	F	OREIGN PATENT DO	CUMENTS		
Document Number	Date	Country	Class	Sub Class	Translation Yes or No
00/74850 A2	12/14/00	WIPO		***	No
00/73780 A1	12/07/00	WIPO			No
00/42424	07/20/00	WIPO			No
99/50480	10/07/99	WIPO			No
99/49319	09/30/99	WIPO			No
99/29711	06/17/99	WIPO			No
98/49549	11/05/98	WIPO			No
98/48084	10/29/98	WIPO			No
98/09161	03/05/98	WIPO		-	No
	Number 00/74850 A2 00/73780 A1 00/42424 09/50480 09/49319 09/29711 08/49549 08/48084	Document Number Date   00/74850 A2	Document Number         Date         Country           00/74850 A2         12/14/00         WIPO           00/73780 A1         12/07/00         WIPO           00/42424         07/20/00         WIPO           09/50480         10/07/99         WIPO           09/49319         09/30/99         WIPO           09/29711         06/17/99         WIPO           08/49549         11/05/98         WIPO           08/48084         10/29/98         WIPO           08/09161         03/05/98         WIPO	Number	Document Number         Date         Country         Class           00/74850 A2         12/14/00         WIPO           00/73780 A1         12/07/00         WIPO           00/42424         07/20/00         WIPO           09/50480         10/07/99         WIPO           09/49319         09/30/99         WIPO           09/29711         06/17/99         WIPO           08/49549         11/05/98         WIPO           08/48084         10/29/98         WIPO

## Information Disclosure Statement U.S. Patent Application No. 09/938,947



Page 2 of 2

				8/		Page 2 of 2				
	Granger et al., Standard Electrochemical Behavior of High-Ordity, Boron-Doped Polycrystalline Diamond Thin-Film Electrodes, Analytical Chemistry, Vol. 72, No. 16, 12, 300 (August 15, 2000)									
	Zak et al., Diamond Optically Transparent Electrodes: Demonstration of Concept with Ferri/Ferrocyanide and Methyl Viologen, Analytical Chemistry, Vol. 73, No. 5, pp. 908-914 (March 1, 2001)									
	Xu et al., Boron-Doped Diamond Thin-Film Electrodes, Analytical Chemistry, Vol. 69, pp. 591A-597A (October 1, 1997)									
	Washizu et al., Molecular Dielectrophoresis of Biopolymers, IEEE Transactions on Industry Applications, Vol. 30, No. 4, pp. 835-843 (July/August 1994)									
	Carrilho, DNA Sequencing by Capillary Array Electrophoresis and Microfabricated Array Systems, Electrophoresis, Vol. 21. pp. 55-65 (2000)									
	Bruin, Recent Developments in Electrokinetically Driven Analysis on Microfabricated Devices, Electrophoresis, Vol. 21, pp. 3931-3951 (2000)									
	Rocklin et al., A Microfabricated Fluidic Device for Performing Two-Dimensional Liquid-Phase Separations, Analytical Chemistry, Vol. 72, No. 21, pp. 5244-5249 (November 1, 2000)									
	Krishnamoorthy et al., Analysis of Sample Injection and Band-Broadening in Capillary Electrophoresis Microchips, Modeling and Simulation of Microsystems, Applied Computational Research Society, Vol. 3 (2000)									
	Becker et al., Polymer Microfabrication Methods for Microfluidic Analytical Applications, Electrophoresis, Vol. 21, pp. 12-26 (2000)									
	Dolník et al., Capillary Electrophoresis on Microchip, Electrophoresis, Vol. 21, pp. 41-54 (2000)									
	Huang et al., Electric Manipulation of Bioparticles and Macromolecules on Microfabricated Electrodes, Analytical Chemistry, Vol. 73, No. 7, pp. 1549-1559 (April 1, 2001)									
	Liu et al., Optimization of High-Speed DNA Sequencing on Microfabricated Capillary Electrophoresis Channels, Analytical Chemistry, Vol. 71, No. 3, pp. 566-573 (February 1, 1999)									
	McDonald et al., Fabrication of Microfluidic Systems in Poly(dimethylsiloxane), Electrophoresis, Vol. 21, pp. 27-40 (2000)									
	Morgan et al., Separation of Submicron Bioparticles by Dielectrophoresis, Biophysical Journal, Vol. 77, pp. 516-525 (July 1999)									
	García Campaña et al., Miniaturization of Capillary Electrophoresis Systems Using Micromachining Techniques, Journal of Microcolumn Separation, Vol. 10, No. 4, pp. 339-355 (1998)									
	Simpson et al., A Transmission Imaging Spectrograph and Microfabricated Channel System for DNA Analysis, Electrophoresis, Vol. 21, pp. 135-149 (2000)									
	Alien Technology document or printout for 185 and 70 Micron NanoBlock circuits on top of a dime, and flexible PET substrate, one page (not dated)									
	Nanogen document or printout for NanoChip Molecular Biology Workstation, one page, showing workstation with enlargement of 99-site test array (not dated)									
Examiner			*** ** <u>*</u>	Date Considered						
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